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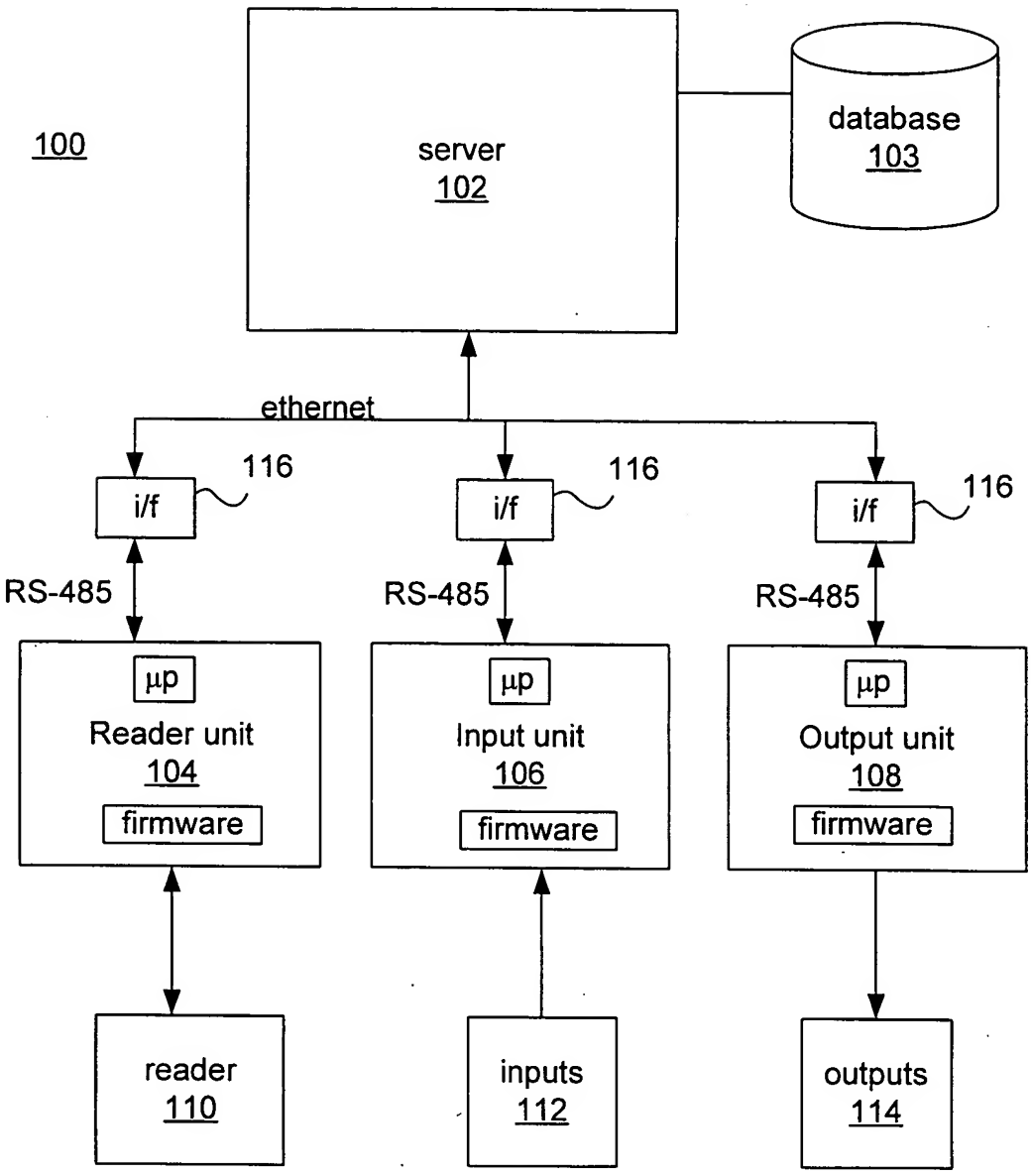
100
server
102
database
103
ethernet
116
i/f
116
i/f
116
i/f
RS-485
RS-485
RS-485
µp
Reader unit
104
firmware
µp
Input unit
106
firmware
µp
Output unit
108
firmware
reader
110
inputs
112
outputs
114

Fig. 1

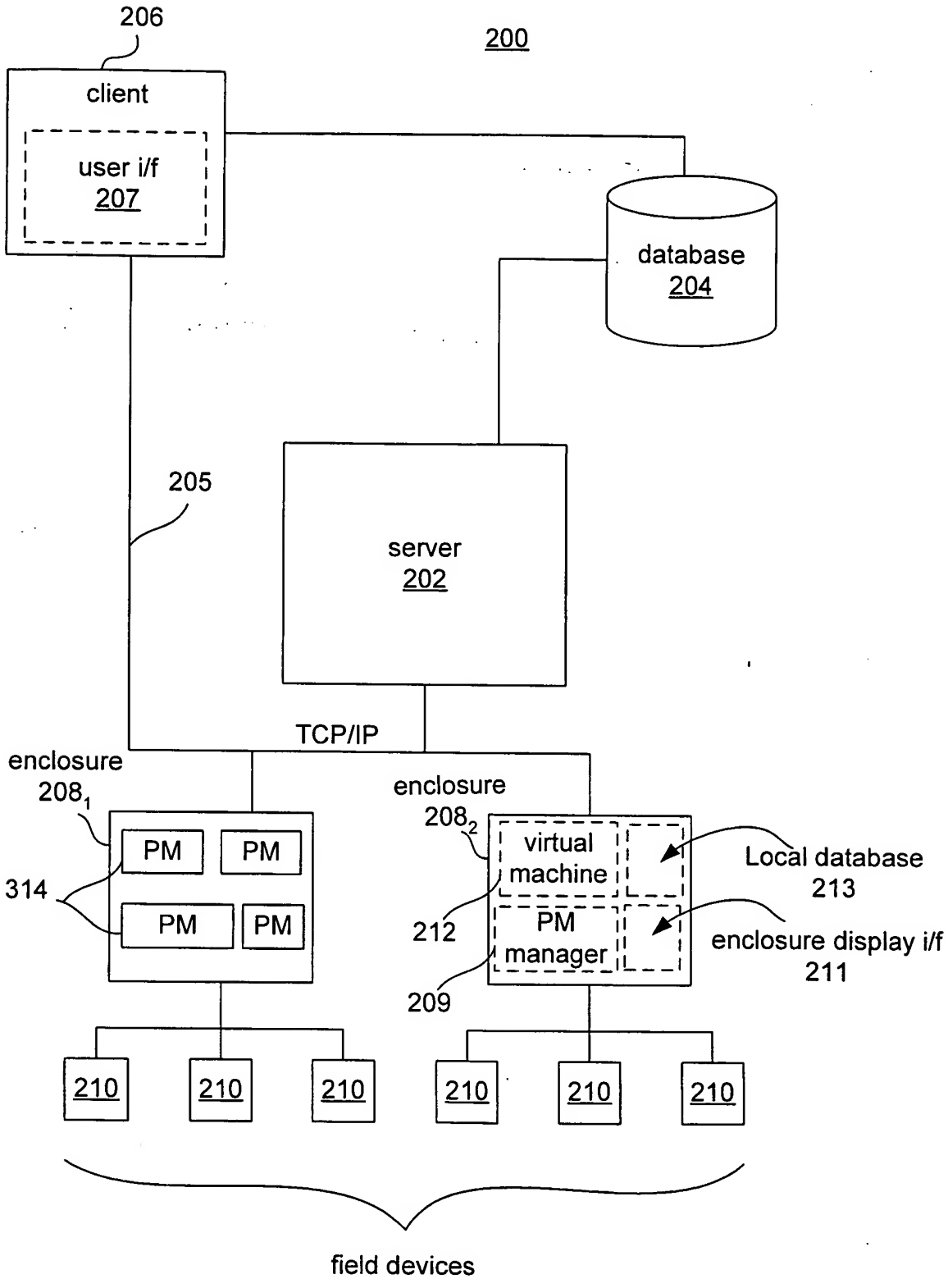
206
200
client
user i/f
207
database
204
205
server
202
TCP/IP
enclosure
208$_1$
enclosure
208$_2$
PM
PM
PM
PM
314
virtual
machine
PM
manager
212
209
Local database
213
enclosure display i/f
211
210
210
210
210
210
210
field devices

Fig. 2

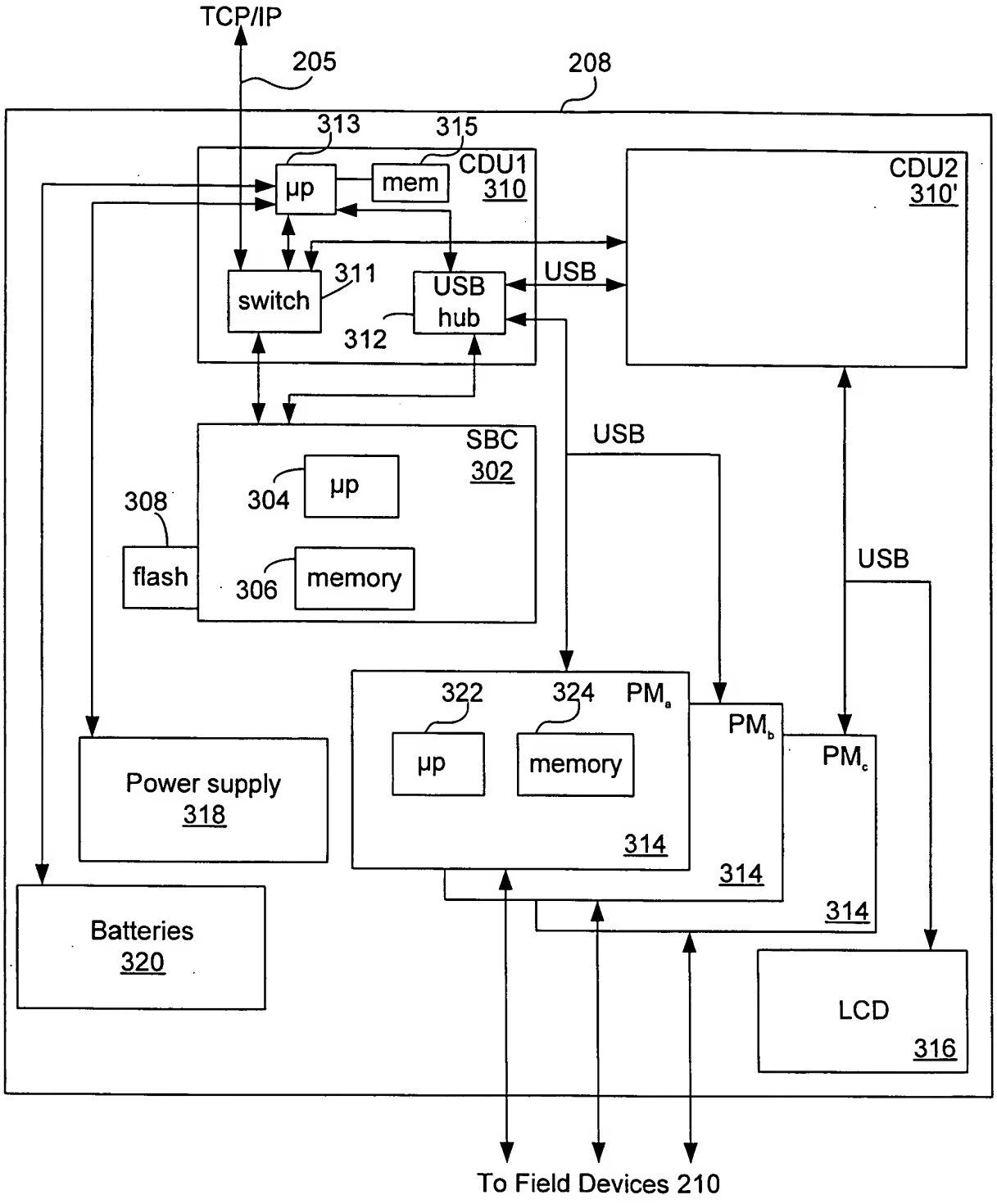
TCP/IP
205
208
313
315
CDU1
310
µp
mem
CDU2
310'
switch
311
USB
hub
USB
312
SBC
302
USB
304
µp
308
flash
306
memory
USB
322
324
PM$_a$
PM$_b$
PM$_c$
µp
memory
Power supply
318
314
314
314
Batteries
320
LCD
316
To Field Devices 210

Fig. 3

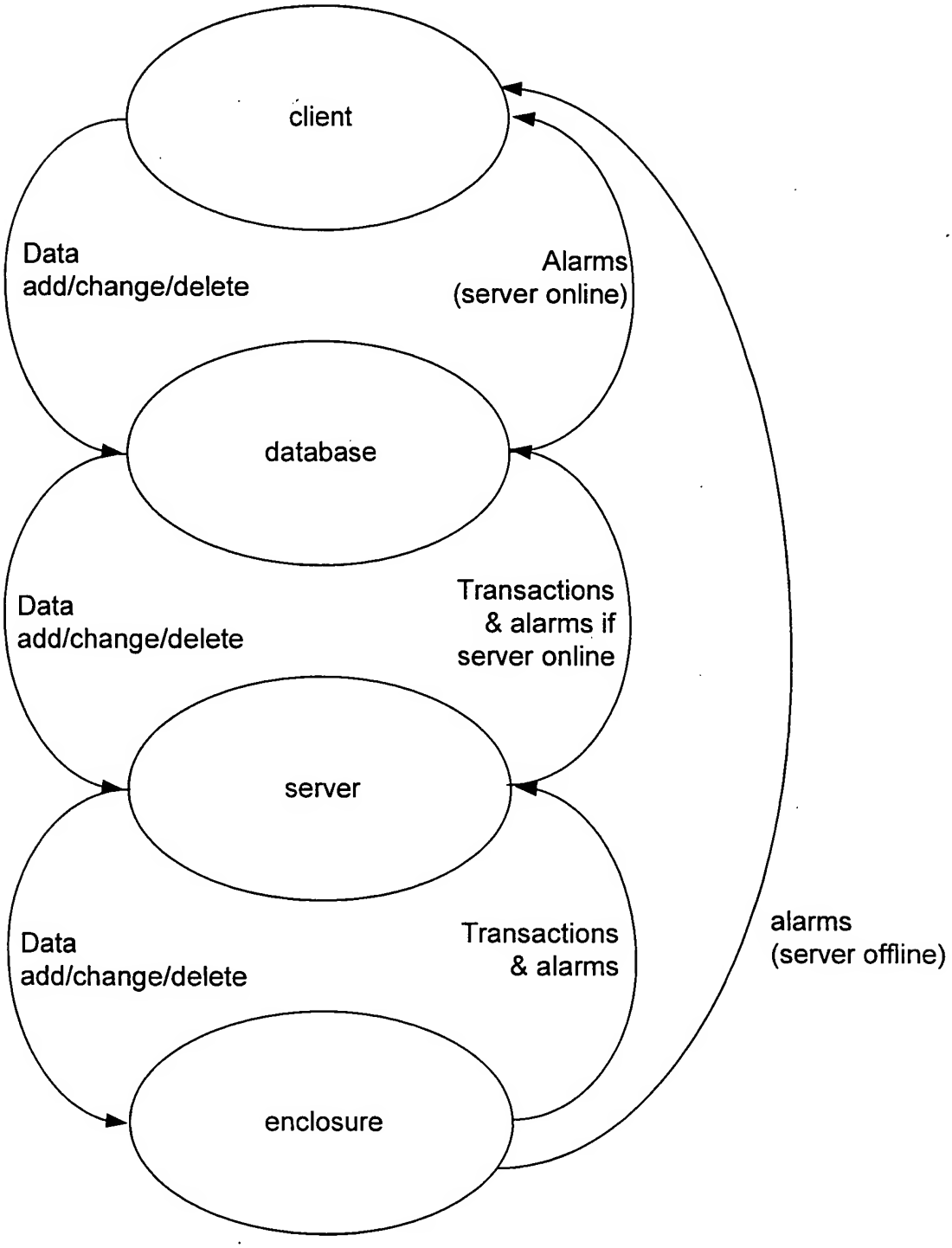
client
Data
add/change/delete
Alarms
(server online)
database
Data
add/change/delete
Transactions
& alarms if
server online
server
Data
add/change/delete
Transactions
& alarms
enclosure
alarms
(server offline)

Fig. 4

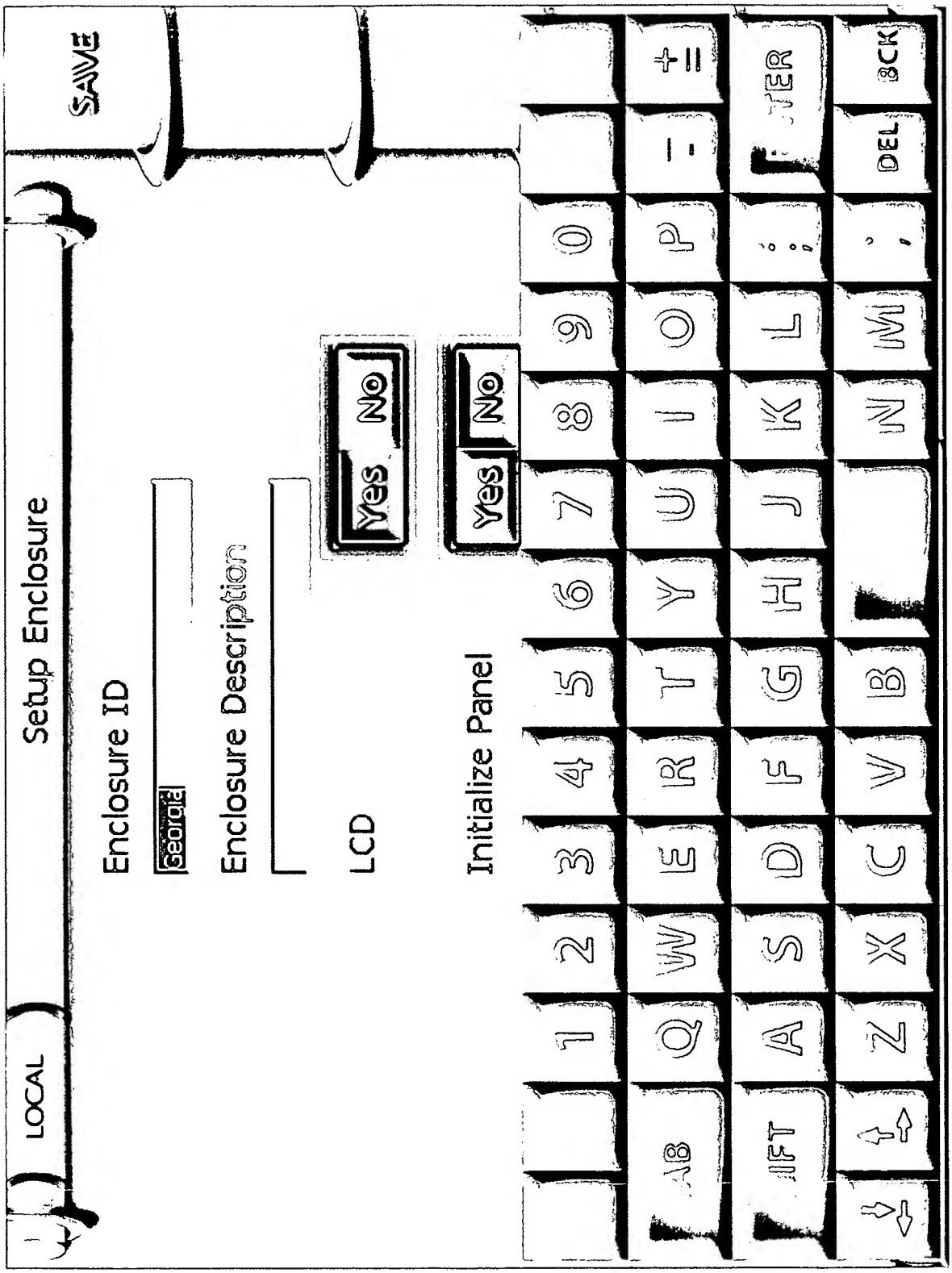
LOCAL
Setup Enclosure
SAVE
Enclosure ID
George
Enclosure Description
LCD
Yes No
Initialize Panel
Yes No

Fig. 5

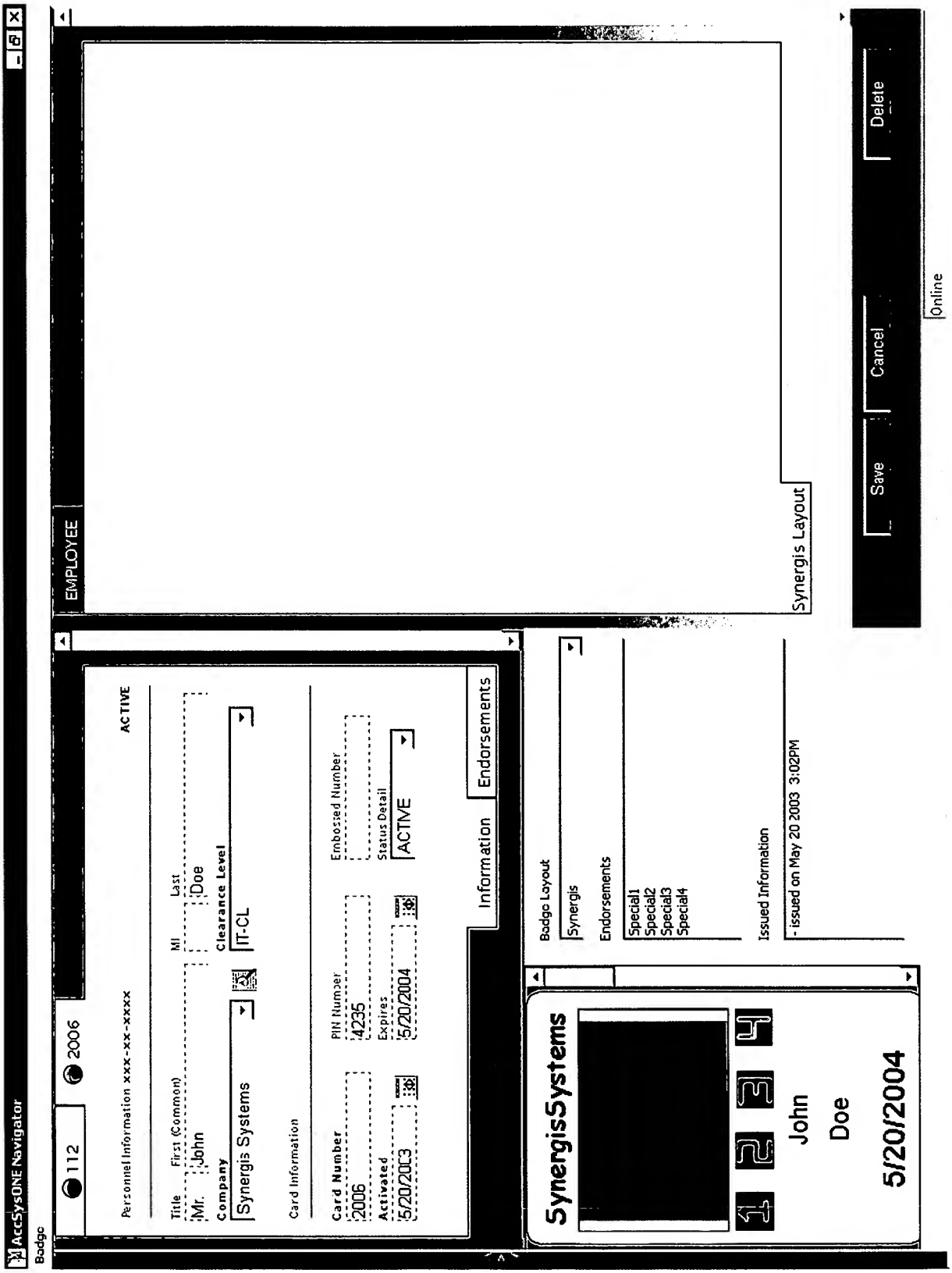
AccSysONE Navigator
Badge
112
2006
Personnel Information xxx-xx-xxxx
ACTIVE
Title
First (Common)
MI
Last
Mr.
John
Doe
Company
Synergis Systems
Clearance Level
IT-CL
Card Information
Card Number
2006
PIN Number
4235
Embossed Number
Activated
5/20/2003
Expires
5/20/2004
Status Detail
ACTIVE
Information
Endorsements
EMPLOYEE
Synergis Layout
Badge Layout
Synergis
Endorsements
Special1
Special2
Special3
Special4
Issued Information
- issued on May 20 2003 3:02PM
SynergisSystems
1
2
3
4
John
Doe
5/20/2004
Save
Cancel
Delete
Online

Fig. 6

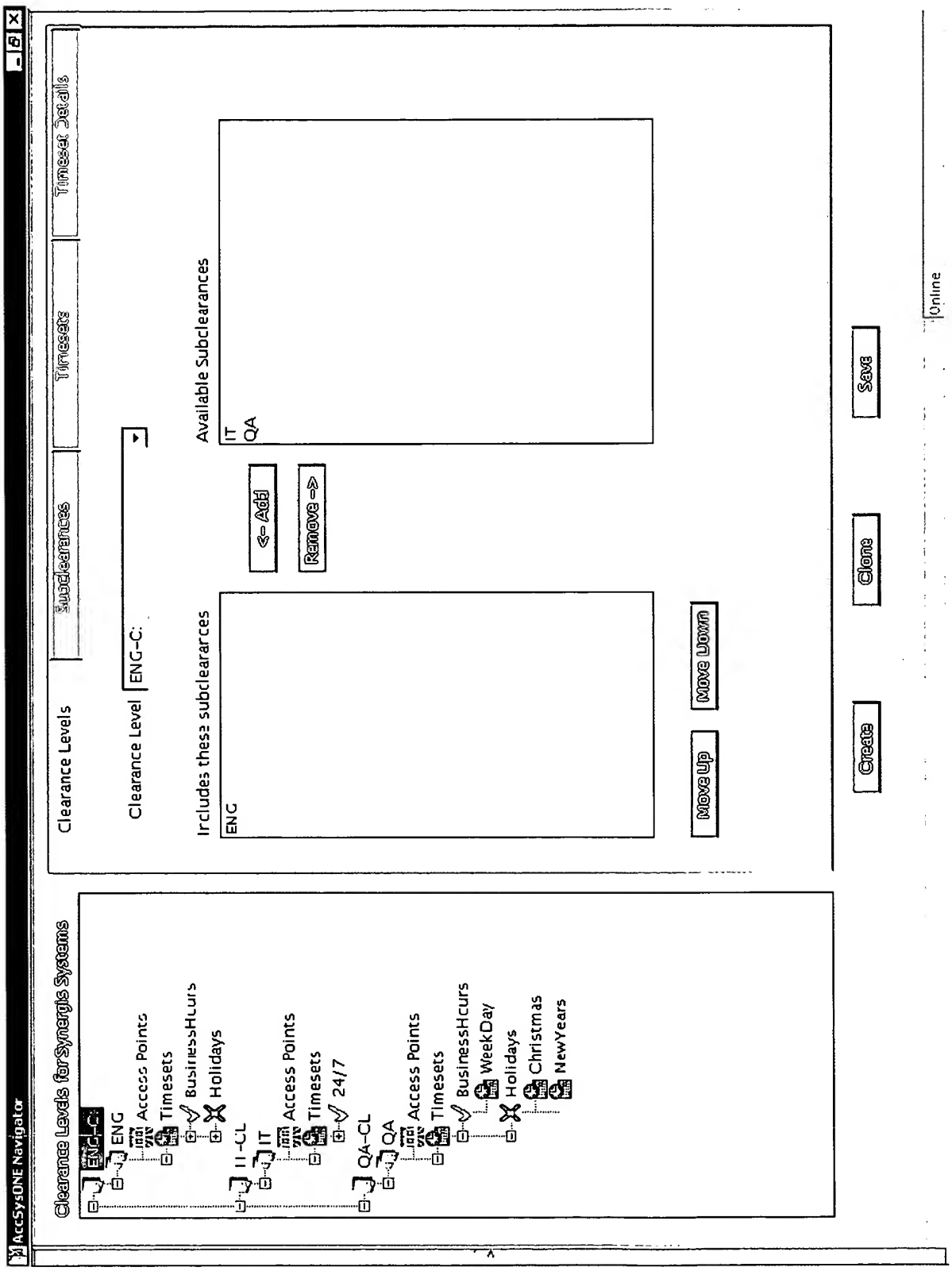
AccSysONE Navigator
Clearance Levels for Synergis Systems
ENG_C:
ENG
Access Points
Timesets
BusinessHours
Holidays
IT-CL
IT
Access Points
Timesets
24/7
QA-CL
QA
Access Points
Timesets
BusinessHours
WeekDay
Holidays
Christmas
NewYears
Clearance Levels
Subclearances
Timesets
Timeset Details
Clearance Level
ENG-C:
Includes these subclearances
ENG
<= Add
Remove =>
Available Subclearances
IT
QA
Move Up
Move Down
Create
Clone
Save
Online

Fig. 7

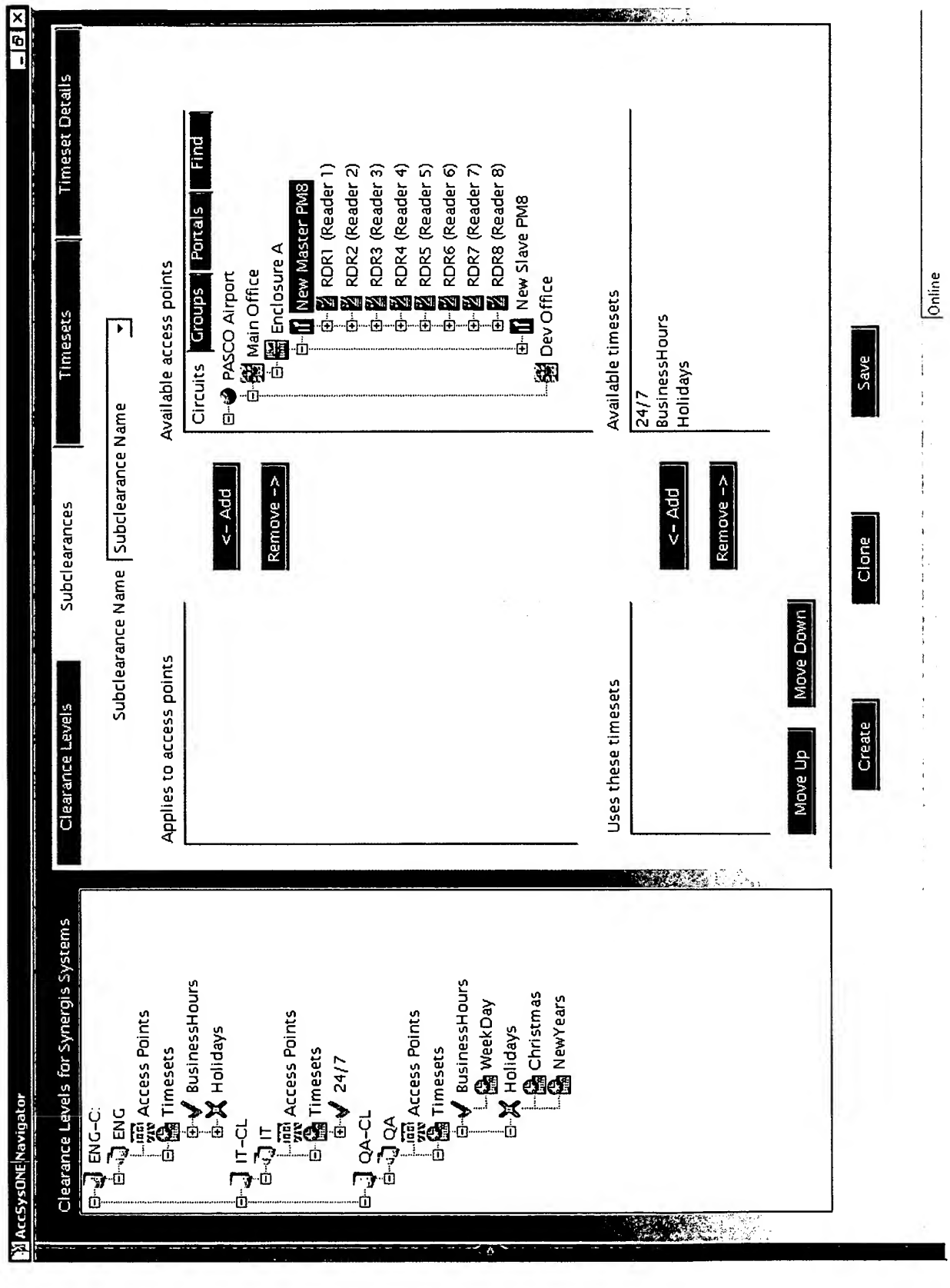
AccSysONENavigator
Clearance Levels for Synergis Systems
ENG-C:
ENG
Access Points
Timesets
BusinessHours
Holidays
IT-CL
IT
Access Points
Timesets
24/7
QA-CL
QA
Access Points
Timesets
BusinessHours
WeekDay
Holidays
Christmas
NewYears
Clearance Levels
Subclearances
Timesets
Timeset Details
Subclearance Name
Subclearance Name
Applies to access points
<- Add
Remove ->
Available access points
Circuits
Groups
Portals
Find
PASCO Airport
Main Office
Enclosure A
New Master PM8
RDR1 (Reader 1)
RDR2 (Reader 2)
RDR3 (Reader 3)
RDR4 (Reader 4)
RDR5 (Reader 5)
RDR6 (Reader 6)
RDR7 (Reader 7)
RDR8 (Reader 8)
New Slave PM8
Dev Office
Uses these timesets
<- Add
Remove ->
Available timesets
24/7
BusinessHours
Holidays
Move Up
Move Down
Create
Clone
Save
Online

Fig. 8

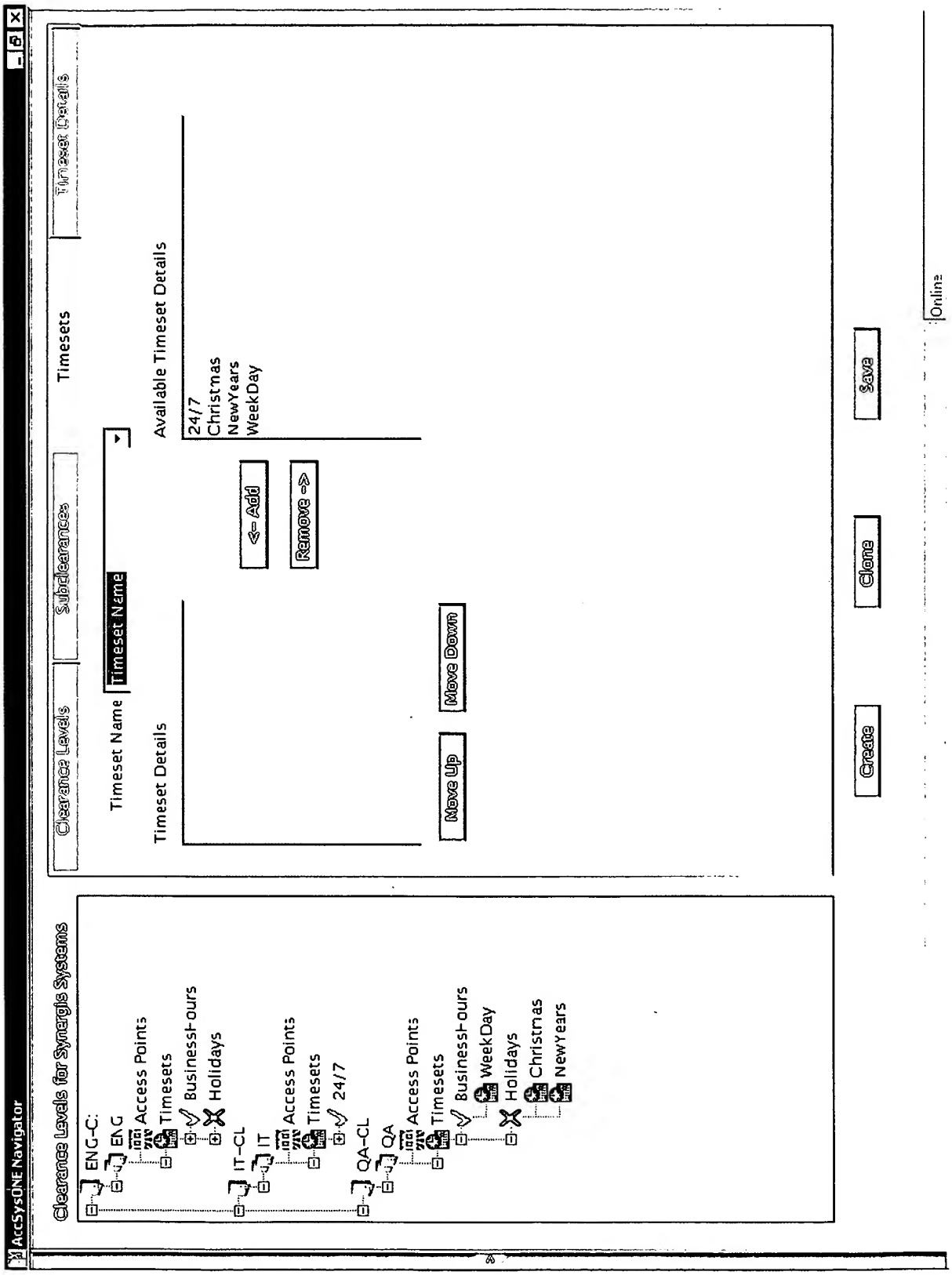
AccSysONE Navigator
Clearance Levels for Synergis Systems
ENG-C:
ENG
Access Points
Timesets
Business-ours
Holidays
IT-CL
IT
Access Points
Timesets
24/7
QA-CL
QA
Access Points
Timesets
Business-ours
WeekDay
Holidays
Christmas
NewYears
Clearance Levels
Subclearances
Timesets
Timeset Details
Timeset Name
Timeset Name
Move Up
Move Down
<= Add
Remove =>
Available Timeset Details
24/7
Christmas
NewYears
WeekDay
Create
Clone
Save
Online

Fig. 9

Applicant: David Duncan et al.
Title: Facilities Management System with Programmable Logic Control
Attorney Docket: 7535.00007
Attorney: Sarah Barone Schwartz
Express Mail No.: EV 343623575 US, filed August 29, 2003

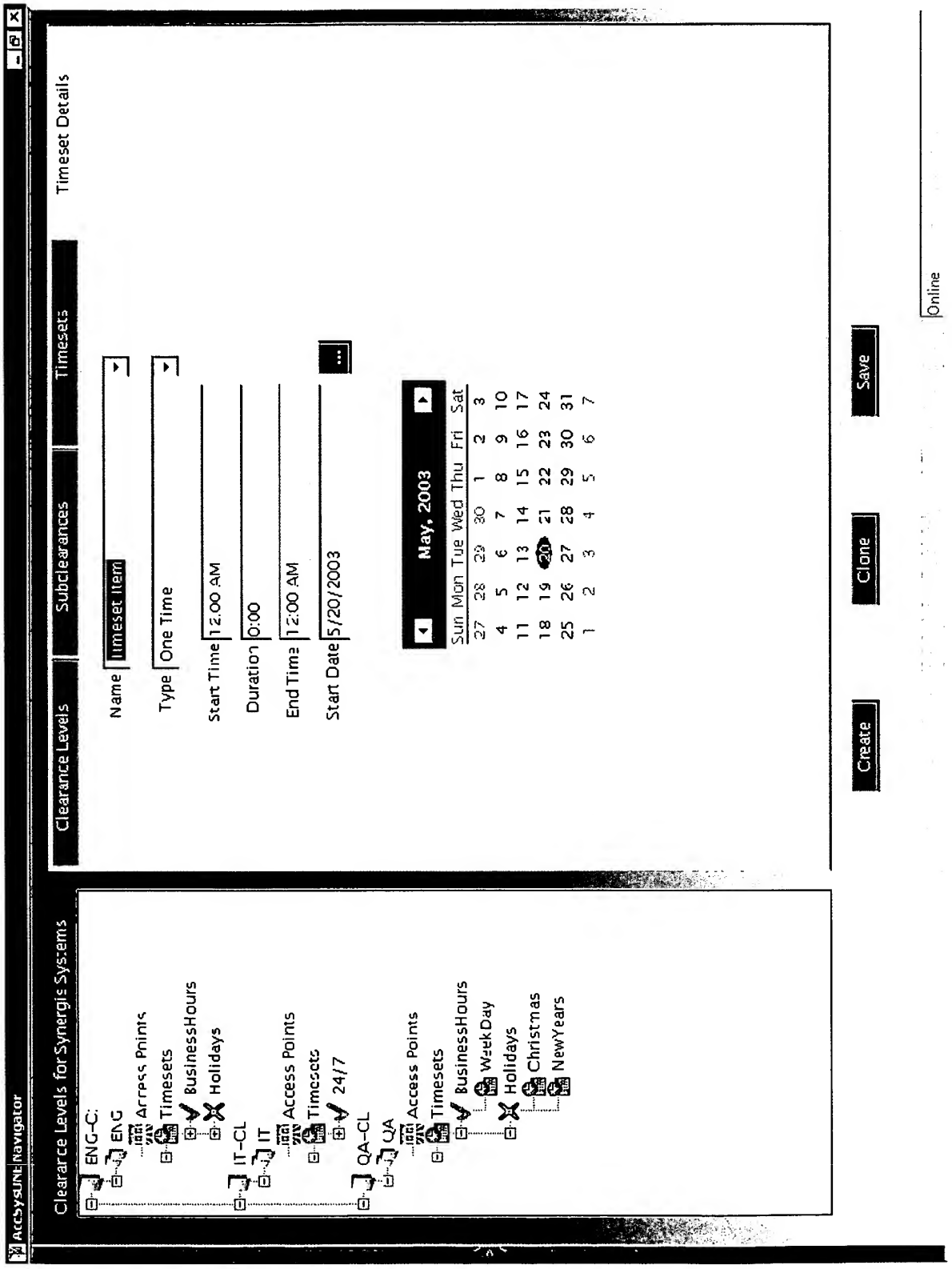

Fig. 10

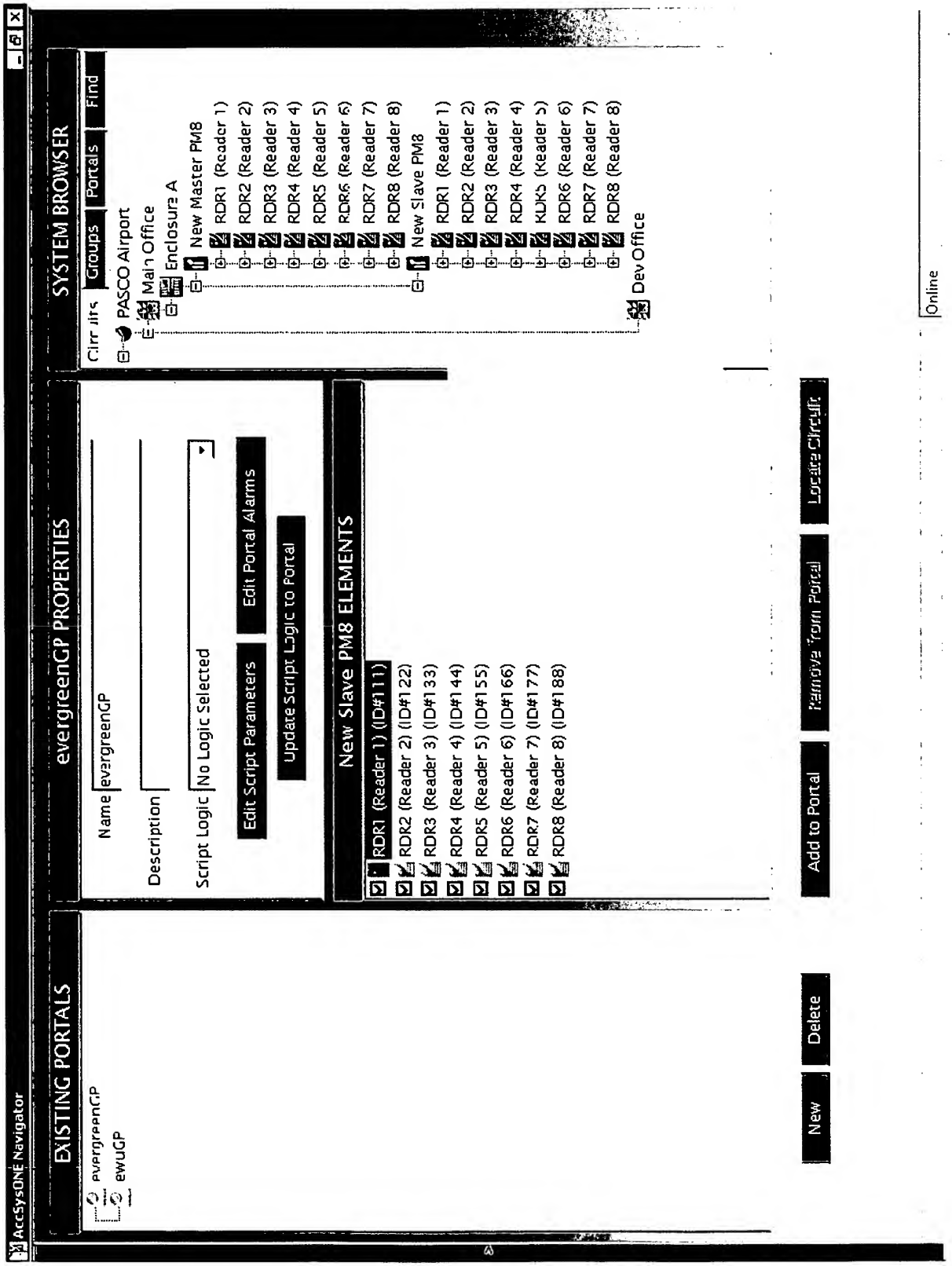
AccSysONE Navigator
EXISTING PORTALS
evergreenGP
ewuGP
evergreenGP PROPERTIES
Name
evergreenGP
Description
Script Logic
No Logic Selected
Edit Script Parameters
Edit Portal Alarms
Update Script Logic to Portal
New Slave PM8 ELEMENTS
RDR1 (Reader 1) (ID#111)
RDR2 (Reader 2) (ID#122)
RDR3 (Reader 3) (ID#133)
RDR4 (Reader 4) (ID#144)
RDR5 (Reader 5) (ID#155)
RDR6 (Reader 6) (ID#166)
RDR7 (Reader 7) (ID#177)
RDR8 (Reader 8) (ID#188)
SYSTEM BROWSER
Groups
Portals
Find
PASCO Airport
Main Office
Enclosure A
New Master PM8
RDR1 (Reader 1)
RDR2 (Reader 2)
RDR3 (Reader 3)
RDR4 (Reader 4)
RDR5 (Reader 5)
RDR6 (Reader 6)
RDR7 (Reader 7)
RDR8 (Reader 8)
New Slave PM8
RDR1 (Reader 1)
RDR2 (Reader 2)
RDR3 (Reader 3)
RDR4 (Reader 4)
RDR5 (Reader 5)
RDR6 (Reader 6)
RDR7 (Reader 7)
RDR8 (Reader 8)
Dev Office
New
Delete
Add to Portal
Remove from Portal
Locate CircuIt
Online

Fig. 11

Applicant: David Duncan et al.
Title: Facilities Management System with Programmable Logic Control
Attorney Docket: 7535.00007
Attorney: Sarah Barone Schwartz
Express Mail No.: EV 343623575 US, filed August 29, 2003

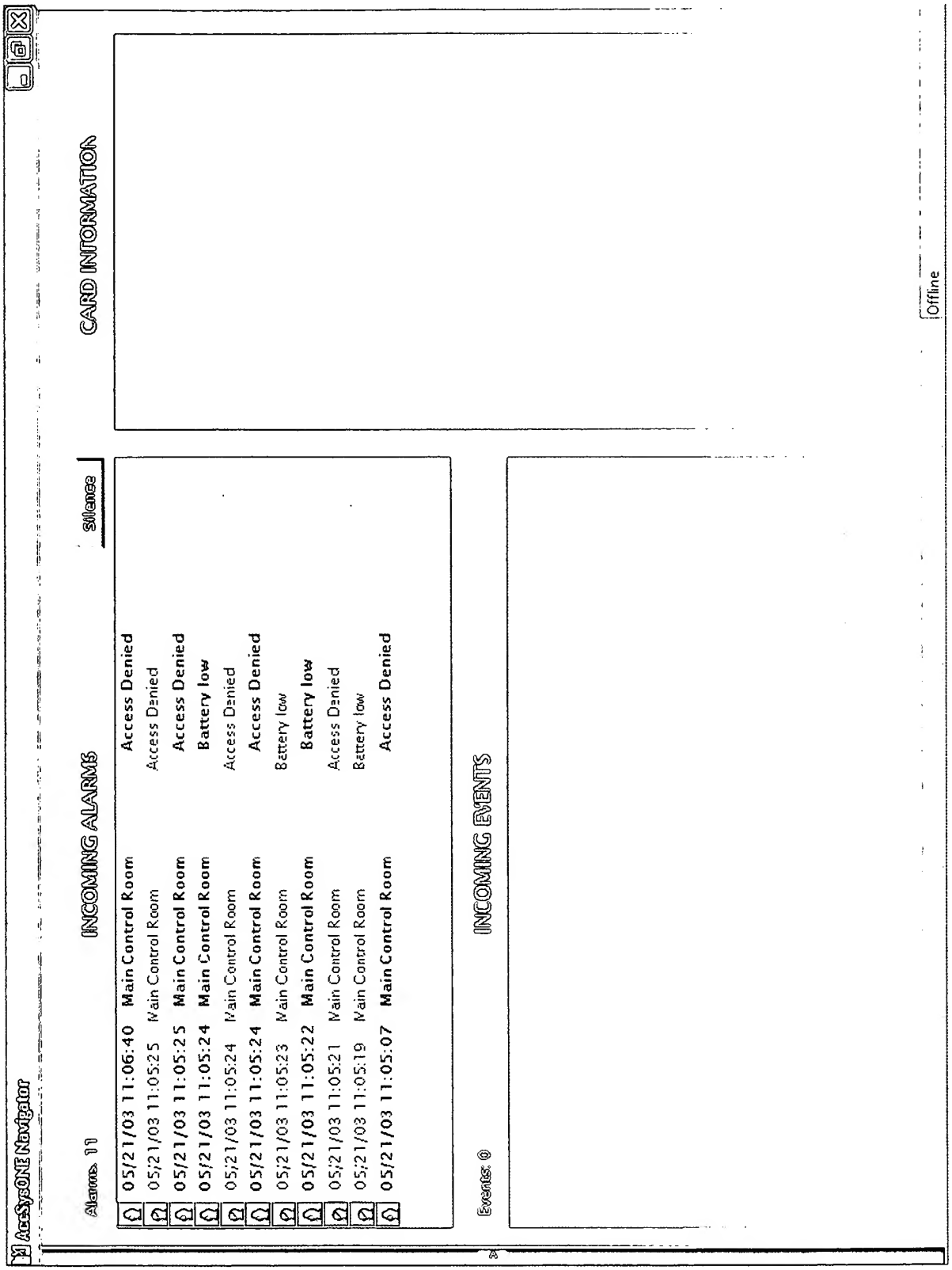

Fig. 12

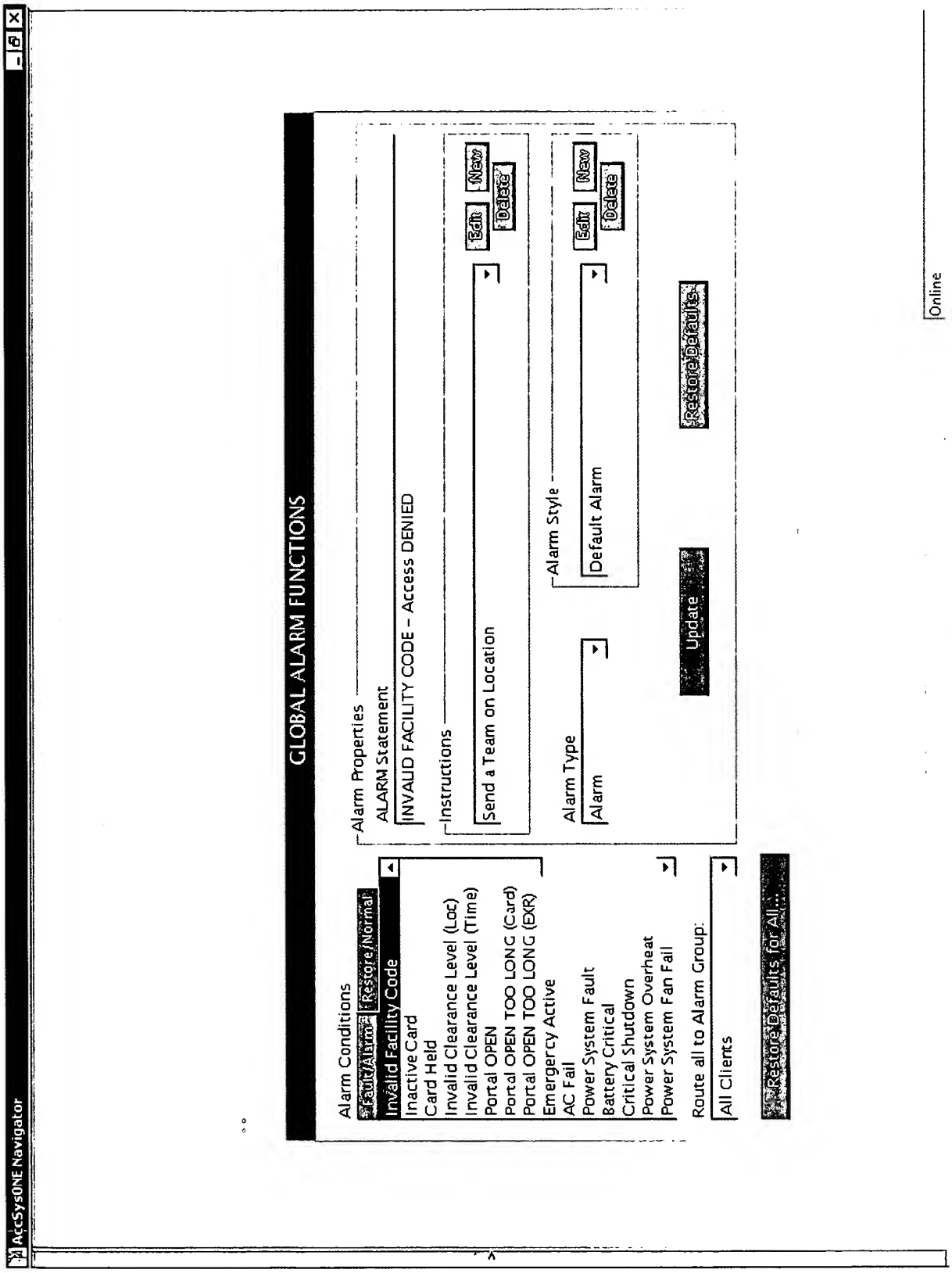
AccSysONE Navigator
GLOBAL ALARM FUNCTIONS
Alarm Conditions
Fault/Alarm
Restore/Normal
Invalid Facility Code
Inactive Card
Card Held
Invalid Clearance Level (Loc)
Invalid Clearance Level (Time)
Portal OPEN
Portal OPEN TOO LONG (Card)
Portal OPEN TOO LONG (EXR)
Emergency Active
AC Fail
Power System Fault
Battery Critical
Critical Shutdown
Power System Overheat
Power System Fan Fail
Route all to Alarm Group:
All Clients
Restore Defaults for All
Alarm Properties
ALARM Statement
INVALID FACILITY CODE – Access DENIED
Instructions
Send a Team on Location
Edit
New
Delete
Alarm Type
Alarm
Alarm Style
Default Alarm
Edit
New
Delete
Update
Restore Defaults
Online

Fig. 13

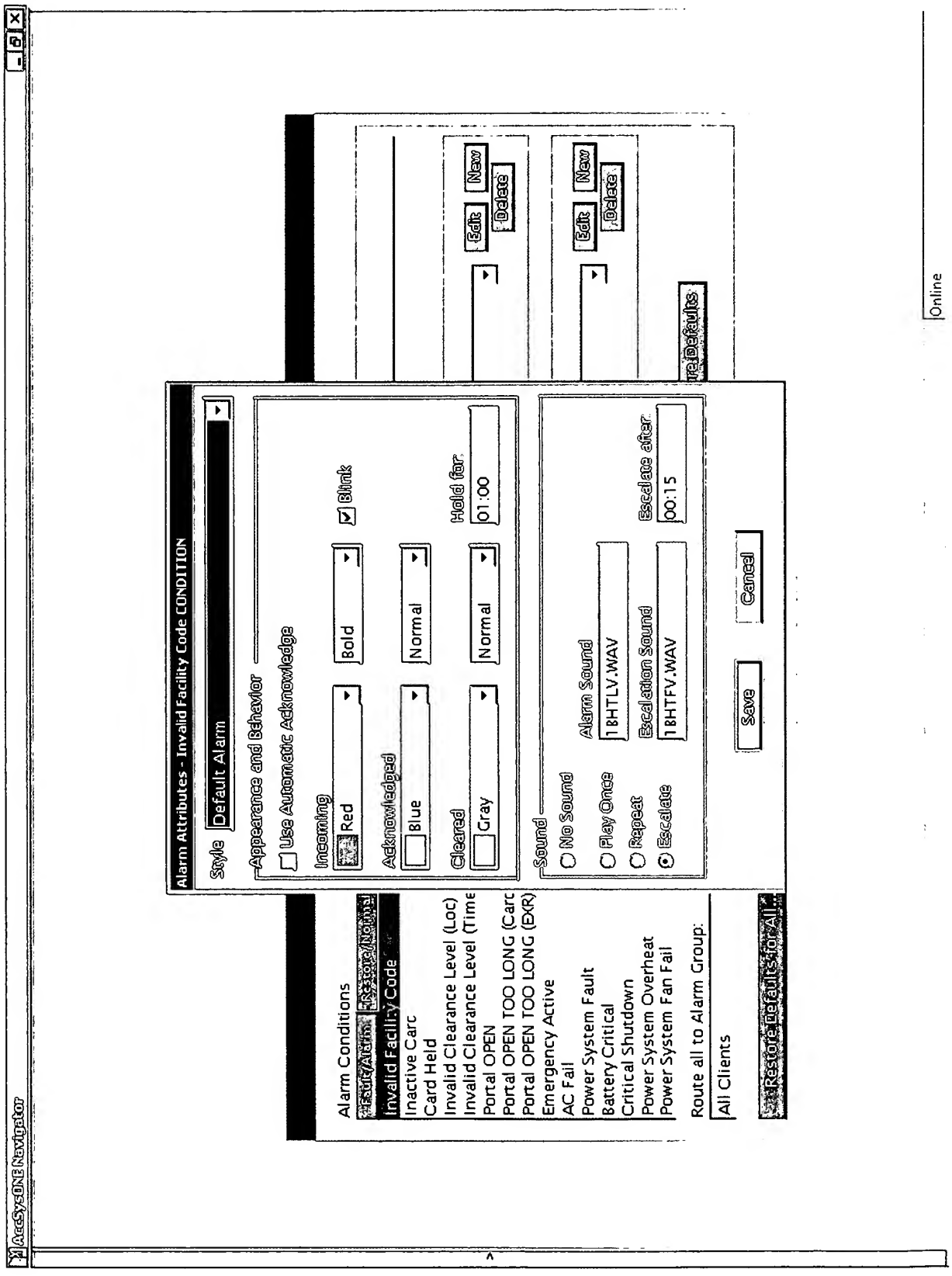
AccSysONE Navigator
Alarm Attributes - Invalid Facility Code CONDITION
Style
Default Alarm
Appearance and Behavior
Use Automatic Acknowledge
Incoming
Red
Bold
Blink
Acknowledged
Blue
Normal
Cleared
Gray
Normal
Hold for
01:00
Sound
No Sound
Play Once
Repeat
Escalate
Alarm Sound
1BHTLV.WAV
Escalation Sound
1BHTFV.WAV
Escalate after
00:15
Edit
New
Delete
Edit
New
Delete
Set Defaults
Alarm Conditions
Invalid Facility Code
Inactive Carc
Card Held
Invalid Clearance Level (Loc)
Invalid Clearance Level (Time
Portal OPEN
Portal OPEN TOO LONG (Carc
Portal OPEN TOO LONG (EXR)
Emergency Active
AC Fail
Power System Fault
Battery Critical
Critical Shutdown
Power System Overheat
Power System Fan Fail
Route all to Alarm Group:
All Clients
Restore defaults for All...
Save
Cancel
Online

Fig. 14

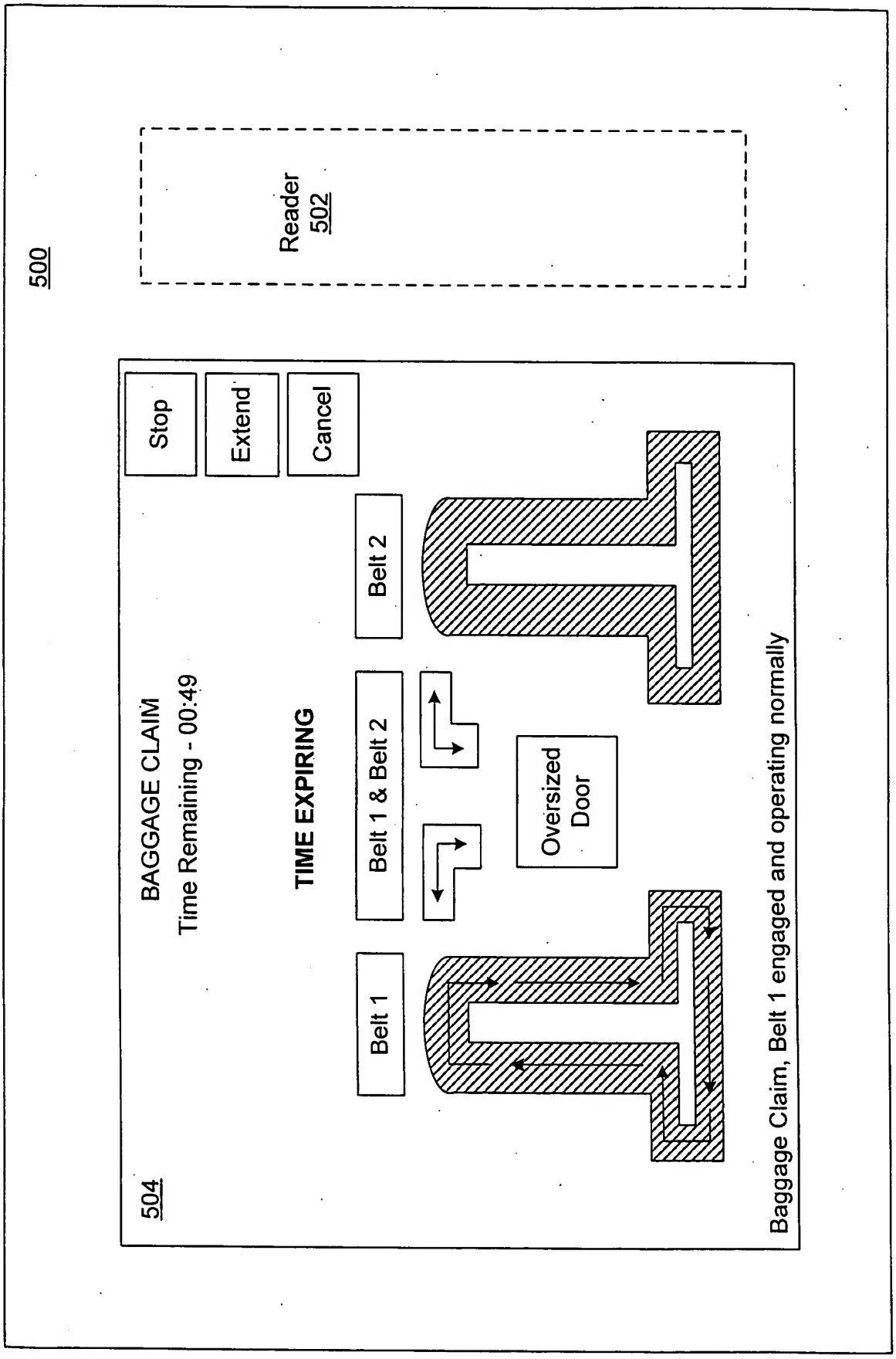
500
Reader
502
Stop
Extend
Cancel
BAGGAGE CLAIM
Time Remaining - 00:49
TIME EXPIRING
Belt 2
Belt 1 & Belt 2
Belt 1
Oversized
Door
504
Baggage Claim, Belt 1 engaged and operating normally

Fig. 15

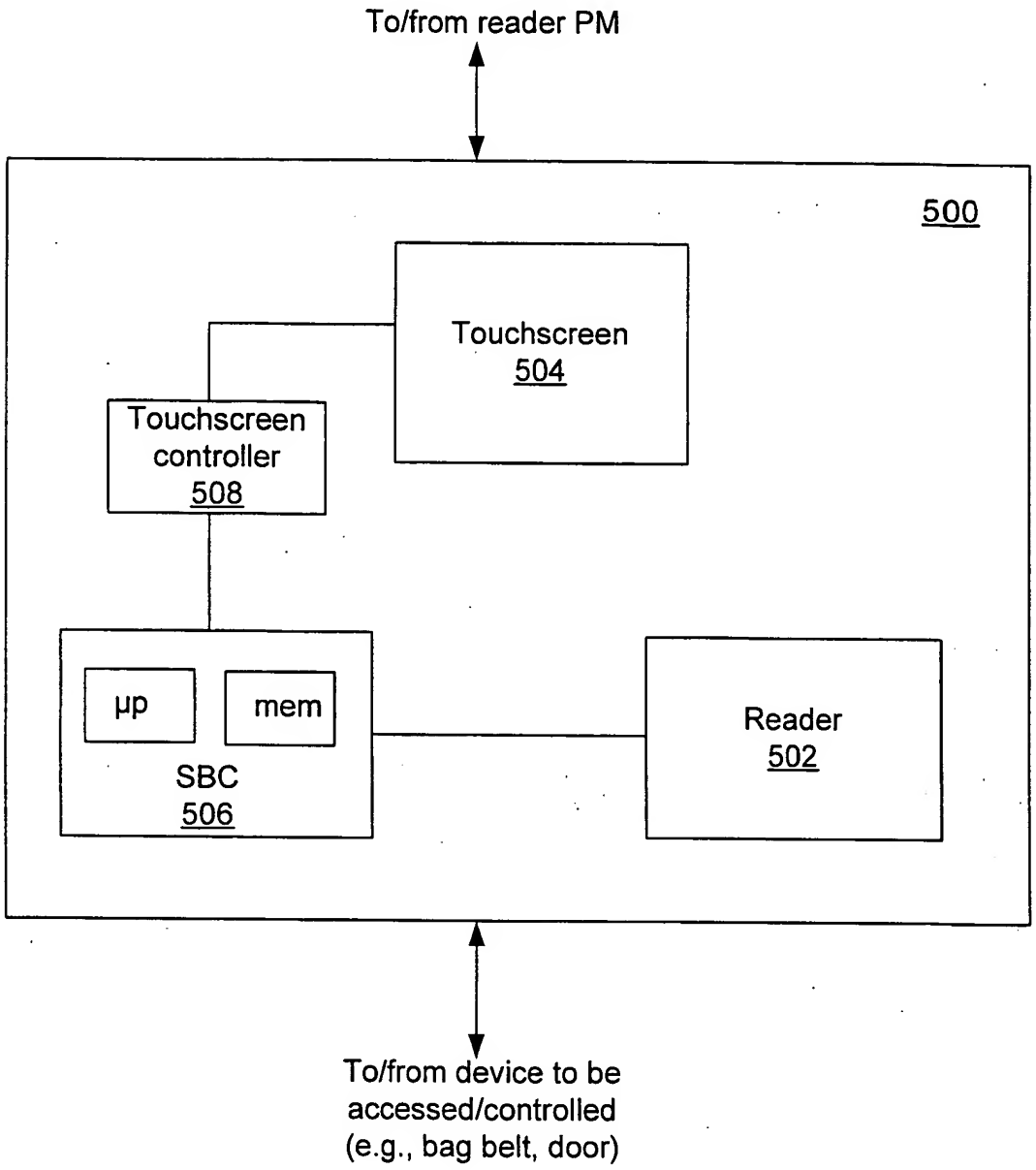
To/from reader PM
500
Touchscreen
504
Touchscreen
controller
508
µp
mem
SBC
506
Reader
502
To/from device to be
accessed/controlled
(e.g., bag belt, door)

Fig. 16

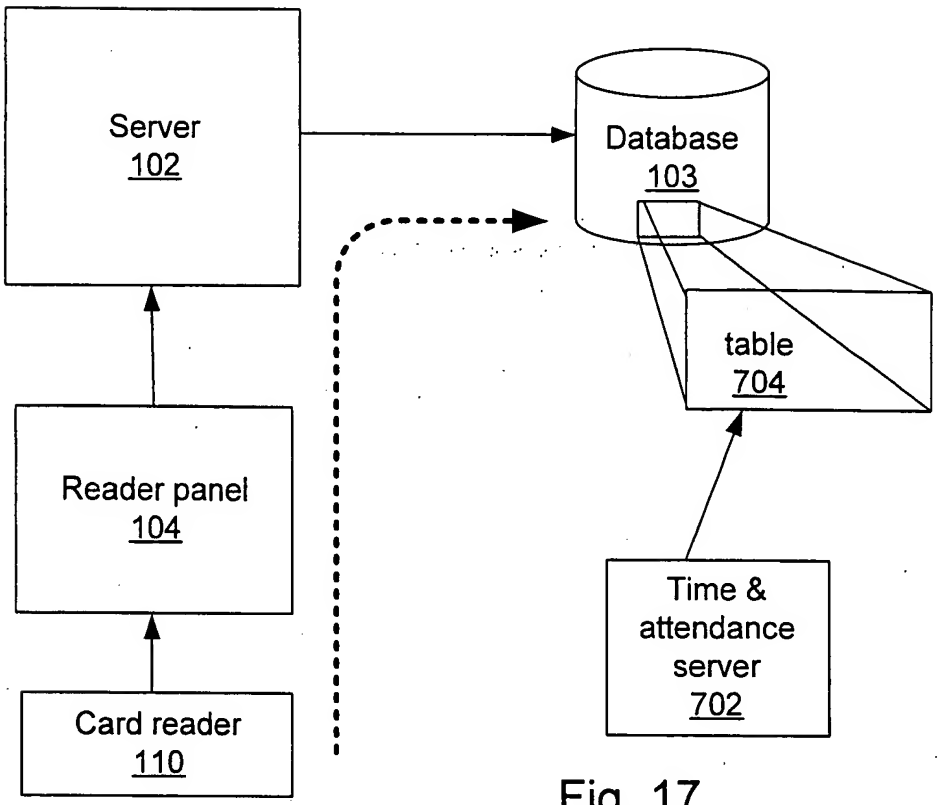
Server
102
Database
103
table
704
Reader panel
104
Time &
attendance
server
702
Card reader
110

Fig. 17

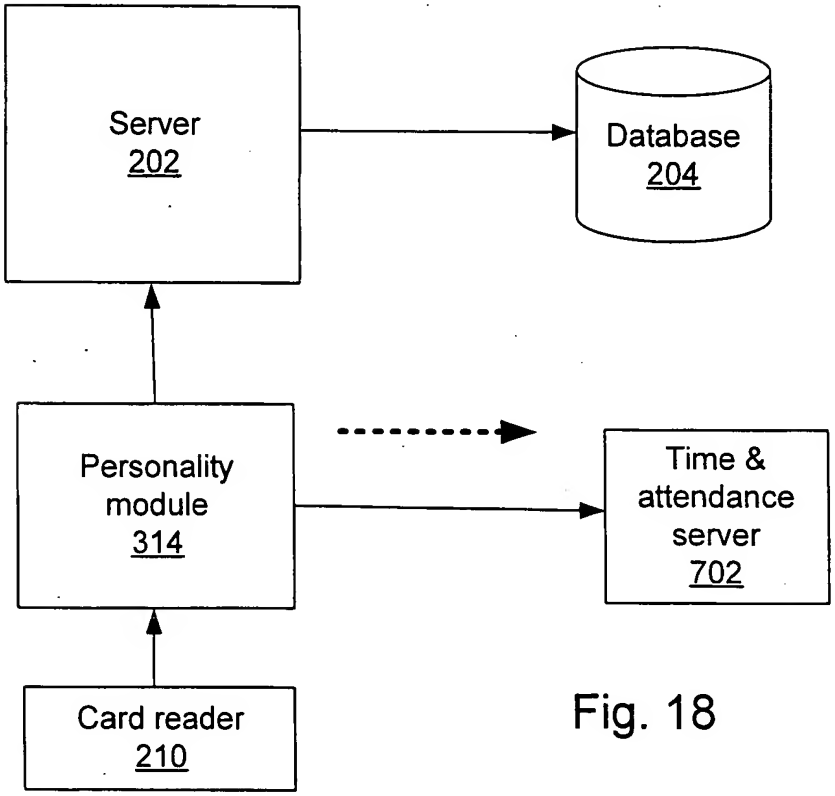
Server
202
Database
204
Personality
module
314
Time &
attendance
server
702
Card reader
210

Fig. 18